

DERWENT-ACC-NO: 1995-298873

DERWENT-WEEK: 199539

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TITLE: Resin laminate with high heat  
sealing and gas **barrier**  
properties - obtd. by laying ionomer  
based layer with  
resin based on ethylene@! alpha-  
olefin! copolymer and  
low **crystalline ethylene@!**-alpha-  
olefin!

PATENT-ASSIGNEE: MITSUI PETROCHEM IND CO LTD[MITC]

PRIORITY-DATA: 1993JP-0337356 (December 28, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	
LANGUAGE	PAGES	MAIN-IPC
JP 07195637 A		August 1, 1995
007	B32B 027/32	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP 07195637A	N/A	1993JP-
0337356	December 28, 1993	

INT-CL (IPC): B32B007/04, B32B027/08, B32B027/28,  
B32B027/32, C08L023/08, C08L023/26, C08L051/06

ABSTRACTED-PUB-NO: JP 07195637A

BASIC-ABSTRACT:

Resin laminate (1) is obtd. by laying layer (1) composed of  
an ionomer with

layer (2) composed of:

(A) one of resin compsn. having a density of 0.930 g/cm<sup>3</sup>. composed of:

(a) crystalline ethylene-alpha-olefin copolymer having density of 0.89-0.94 g/cm<sup>3</sup>. obtd. by polymerisation with a transition metal catalyst, and

(b) amorphous or low crystalline ethylene-alpha-olefin copolymer having density of up to 0.89 g/cm<sup>3</sup>. and crystallinity of up to 40%;

(B) resin compsn. of 95-50 wt.% of:

(c) crystalline ethylene-alpha-olefin copolymer having a density at least 0.92 g/cm<sup>3</sup>. obtd. by the polymerisation with a transition metal catalyst; and

(d) 5-50 wt.% of ethylene-vinyl acetate copolymer, ethylene-acrylic acid copolymer and ethylene-ethyl acrylate copolymer; and

(C) resin compsn. obtd. by grafting the resin compsn. (A) or (B) with an unsatd. carboxylic acid.

Also claimed is resin laminate (II) obtd. by:

(i) laying the layer (1) with the layer (2) composed of the resin compsn. (C), and

(ii) laying the layer (2) with resin layer (3) composed of nylon or ethylene-vinyl alcohol copolymer.

ADVANTAGE - The laminate has a high heat sealing property and a high gas barrier property.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: RESIN LAMINATE HIGH HEAT SEAL GAS **BARRIER**  
PROPERTIES OBTAIN LAY

IONOMER BASED LAYER RESIN BASED POLYETHYLENE@  
ALPHA POLYOLEFIN

COPOLYMER LOW CRYSTAL POLYETHYLENE@ ALPHA  
POLYOLEFIN

ADDL-INDEXING-TERMS:

VINYL!

DERWENT-CLASS: A17 A94 P73

CPI-CODES: A04-F04; A04-F05; A04-G01C; A05-F01C; A09-A01A;  
A09-A09; A10-E21B;  
A11-B09;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

017 ; P0588

Polymer Index [1.2]

017 ; ND01 ; ND09 ; B9999 B5312 B5298 B5276 ; B9999  
B4864 B4853  
B4740 ; N9999 N7192 N7023 ; K9574 K9483 ; K9676\*R ;  
Q9999 Q7818\*R

Polymer Index [1.3]

017 ; N9999 N7090 N7034 N7023

Polymer Index [2.1]

017 ; G0033\*R G0022 D01 D02 D51 D53 ; R00326 G0044  
G0033 G0022 D01  
D02 D12 D10 D51 D53 D58 D82 ; G0022\*R D01 D51 D53 D60  
D51\*R F35\*R  
H0146 ; H0011\*R ; H0088 H0011 ; L9999 L2528 L2506 ;  
P1150

Polymer Index [2.2]

017 ; ND01 ; ND09 ; B9999 B5312 B5298 B5276 ; B9999  
B4864 B4853  
B4740 ; N9999 N7192 N7023 ; K9574 K9483 ; K9676\*R ;  
Q9999 Q7818\*R

Polymer Index [2.3]

017 ; B9999 B4795 B4773 B4740 ; B9999 B4842 B4831 B4740

Polymer Index [2.4]

017 ; Tr\*R ; C999 C033 C000 ; C999 C293  
Polymer Index [3.1]  
017 ; G0033\*R G0022 D01 D02 D51 D53 ; R00326 G0044  
G0033 G0022 D01  
D02 D12 D10 D51 D53 D58 D82 ; G0022\*R D01 D51 D53 D60  
D51\*R F35\*R  
H0146 ; H0011\*R ; H0088 H0011 ; L9999 L2528 L2506 ;  
P1150  
Polymer Index [3.2]  
017 ; ND01 ; ND09 ; B9999 B5312 B5298 B5276 ; B9999  
B4864 B4853  
B4740 ; N9999 N7192 N7023 ; K9574 K9483 ; K9676\*R ;  
Q9999 Q7818\*R  
Polymer Index [3.3]  
017 ; B9999 B4784 B4773 B4740 ; B9999 B4842 B4831 B4740  
Polymer Index [4.1]  
017 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53  
D58 D82 ;  
R00835 G0566 G0022 D01 D11 D10 D12 D51 D53 D58 D63 D84  
F41 ; G0022\*R  
D01 D51 D53 D60 D51\*R F35\*R H0146 ; H0022 H0011 ; H0088  
H0011 ;  
L9999 L2528 L2506 ; P1150 ; P1310  
Polymer Index [4.2]  
017 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53  
D58 D82 ;  
R01126 G0340 G0339 G0260 G0022 D01 D11 D10 D12 D51 D53  
D58 D63 D85  
F41 ; G0022\*R D01 D51 D53 D60 D51\*R F35\*R H0146 ; H0022  
H0011 ;  
H0088 H0011 ; L9999 L2528 L2506 ; P1150 ; P0088 ;  
P0180  
Polymer Index [4.3]  
017 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53  
D58 D82 ;  
R00446 G0282 G0271 G0260 G0022 D01 D12 D10 D51 D53 D58  
D60 D83 F36  
F35 ; G0022\*R D01 D51 D53 D60 D51\*R F35\*R H0146 ; H0022  
H0011 ;  
H0088 H0011 ; L9999 L2528 L2506 ; P1150 ; P0088 ;  
P0168  
Polymer Index [4.4]  
017 ; ND01 ; ND09 ; B9999 B5312 B5298 B5276 ; B9999

B4864 B4853

B4740 ; N9999 N7192 N7023 ; K9574 K9483 ; K9676\*R ;  
Q9999 Q7818\*R

Polymer Index [5.1]

017 ; P0635\*R F70 D01

Polymer Index [5.2]

017 ; P1332 P1694

Polymer Index [5.3]

017 ; ND01 ; ND09 ; B9999 B5312 B5298 B5276 ; B9999

B4864 B4853

B4740 ; N9999 N7192 N7023 ; K9574 K9483 ; K9676\*R ;  
Q9999 Q7818\*R

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1995-133831

Non-CPI Secondary Accession Numbers: N1995-226828